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02.10.1998 JP 28112798
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(54) **Herbicide tolerant transgenic plants where the herbicide inhibits prophyrin biosynthesis**

(57) Weed control compound-resistant plants are produced by introducing a gene encoding a protein having the following characteristics (a) to (c):

- (a) having a specific affinity for a substance which is concerned with the weed control activity of a weed control compound,
- (b) having substantially no capability of modifying a substance for which said protein has a specific affinity, and
- (c) being substantially free from framework regions of variable regions in an immunoglobulin, into a plant cell, and expressing the gene.

Fig. 2

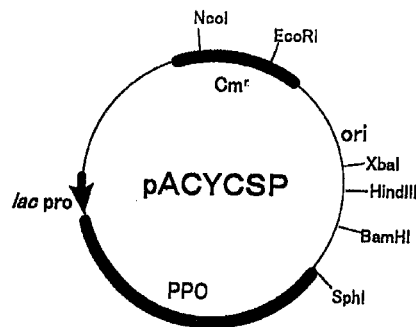
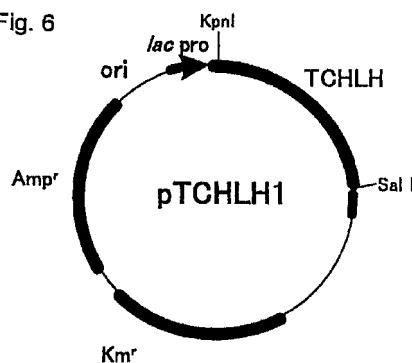


Fig. 6



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EUROPEAN SEARCH REPORT

Application Number
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-/--			
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 10 July 2000	Examiner Chakravarty, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

Application Number
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Place of search MUNICH		Date of completion of the search 10 July 2000	Examiner Chakravarty, A
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03 82 (P04C01)



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-6 (part), 7-9, 10-12 (part), 18-20 (part), 21, 25 (part), 30-42 (part).

subject-matter where the protein is the protoporphyrin IX binding sub-unit of magnesium chelatase

2. Claims: 1-6 (part), 10-12 (part), 13-17, 18-20 (part), 25 (part), 30-42 (part)

subject-matter where the protein is a variant of protoporphyrinogen IX oxidase

3. Claims: 1-6 (part), 10-12 (part), 18-20 (part), 22-24, 25 (part), 30-42 (part).

subject-matter where the protein is ferrochelatase

4. Claims: 26-29, 30-42 (part)

subject-matter where the protein is coporphyrinogen III oxidase (having the ability to modify coporphyrinogen III)

5. Claim : 40

methods for plant protection using weed control compounds

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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